

FIG. 1

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
0	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

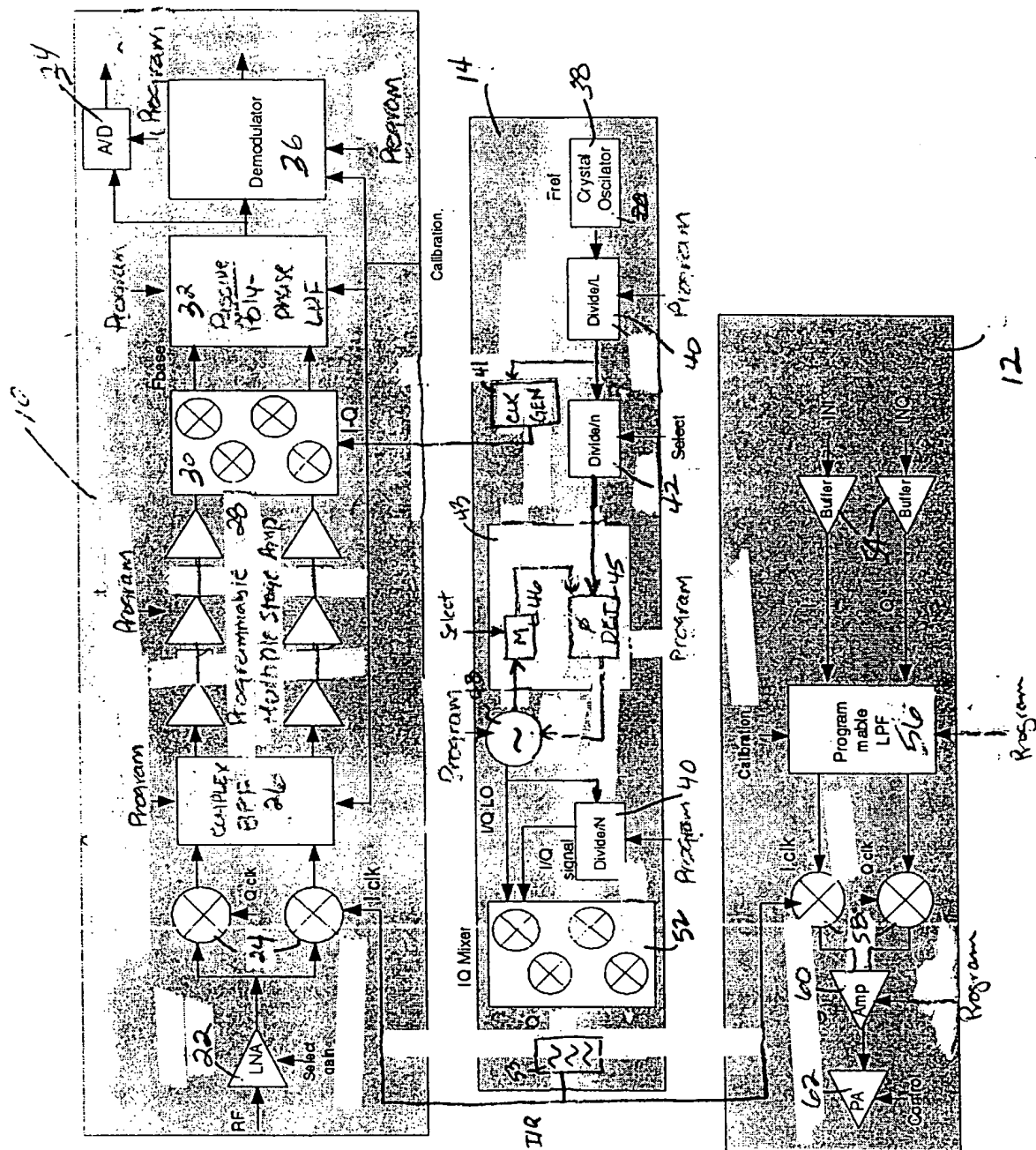


Fig. 2

0000000000000000

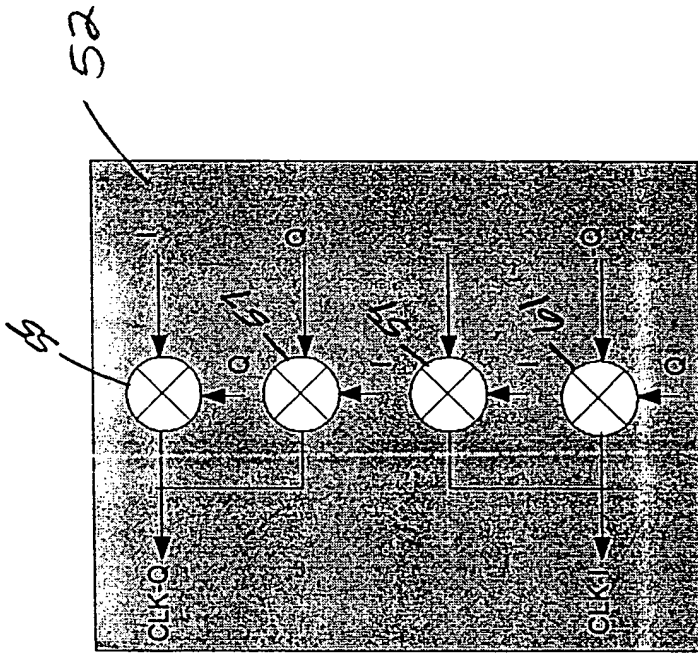


FIG. 3

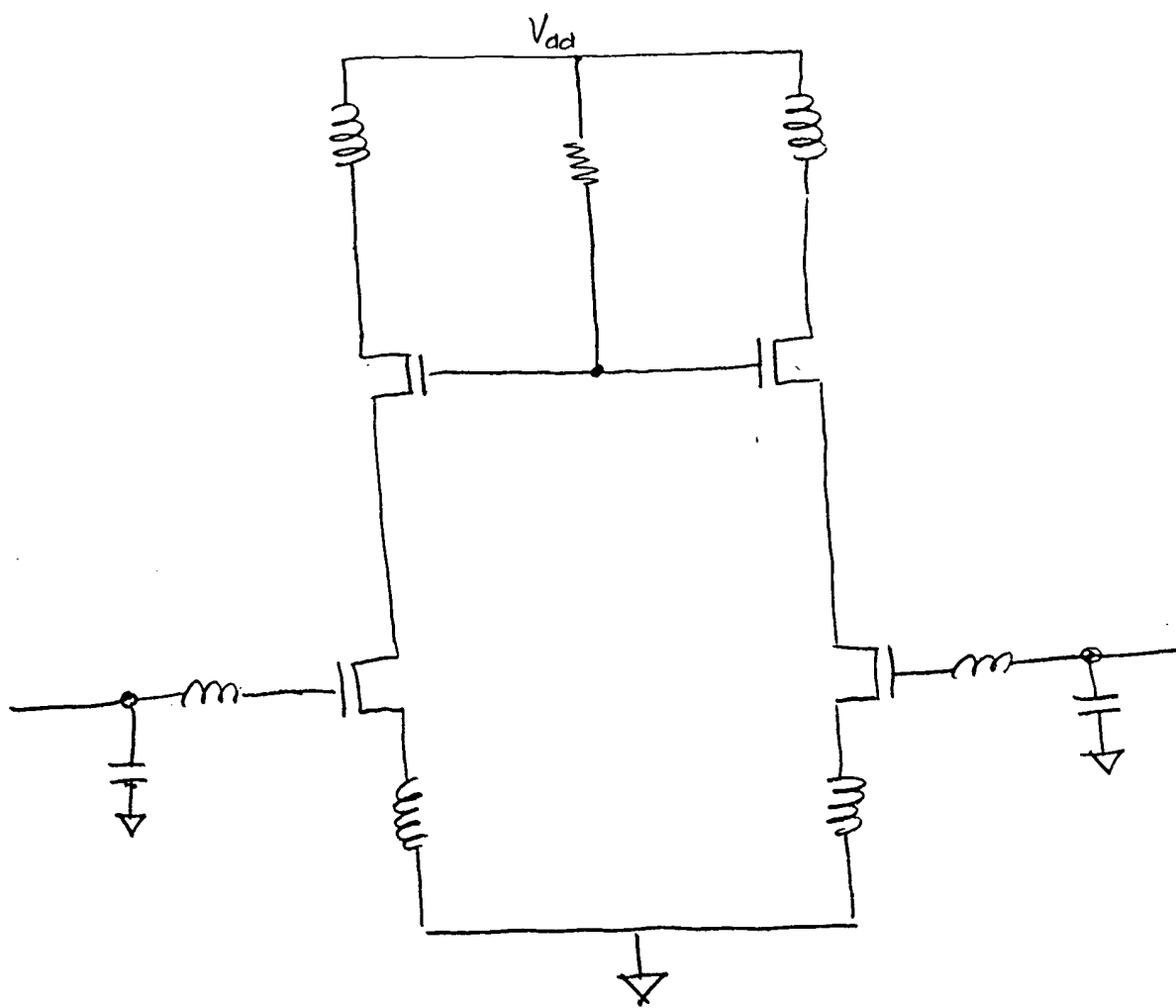


FIG. 4(a)

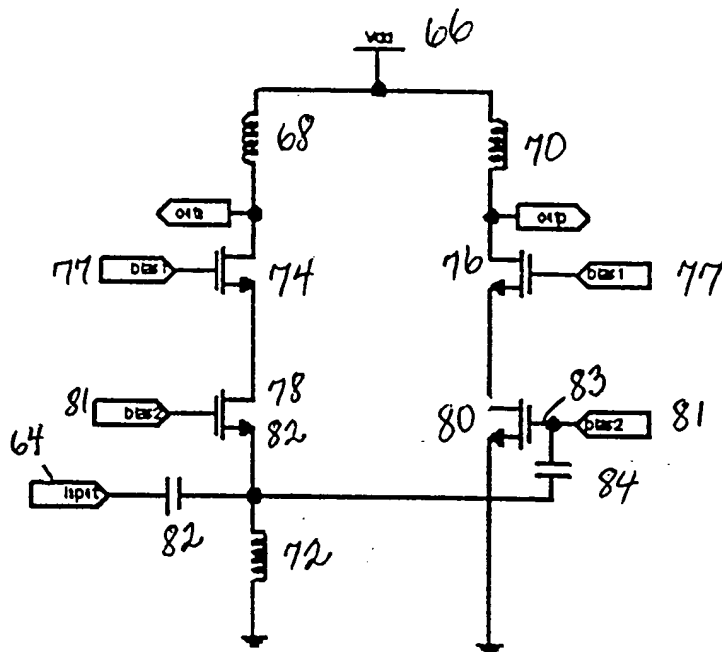


FIG. 4

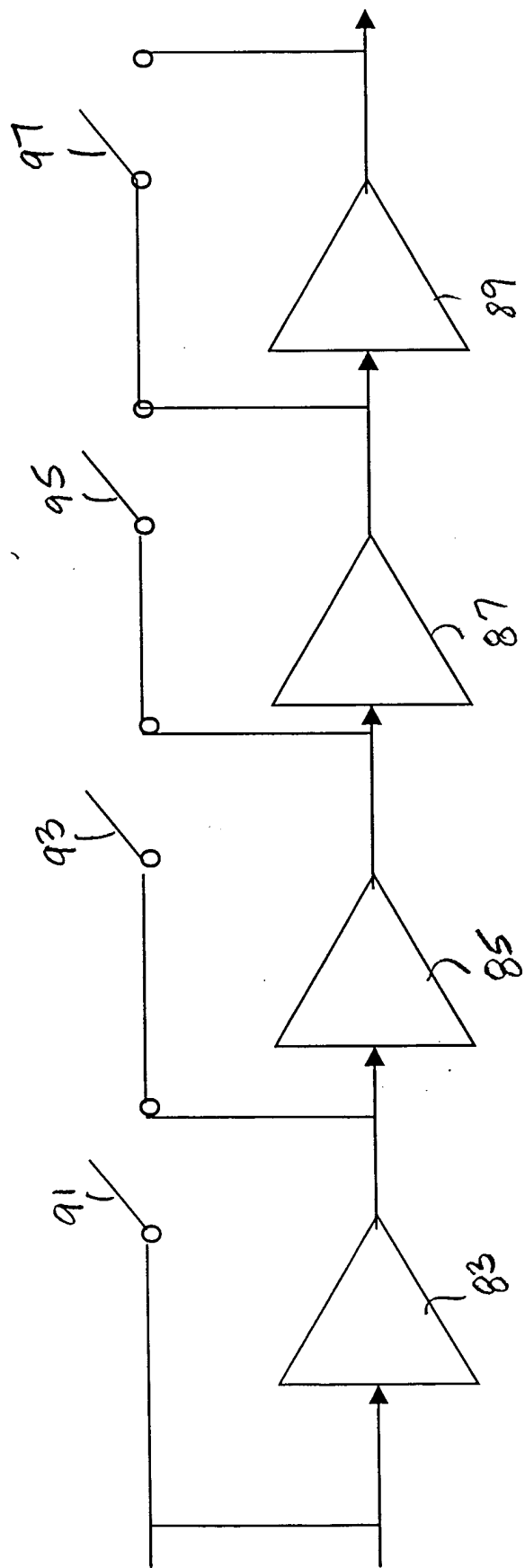


FIG. 5

FIG. 6

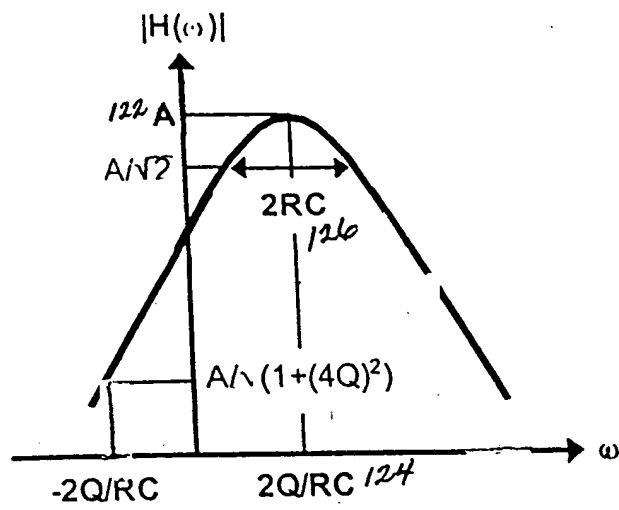


FIG. 7



Diagram for finding  $Y_i$ : A voltage source  $V$  is connected to a parallel combination of a capacitor  $C_z$  (130) and a resistor  $R_z$  (120). The output terminals are shorted to a "Virtual Ground". The current  $I$  is shown flowing into the short. The input admittance is given as  $Y_i = I/V$ .

FIG. 9

U.S. Pat. 4,111,111

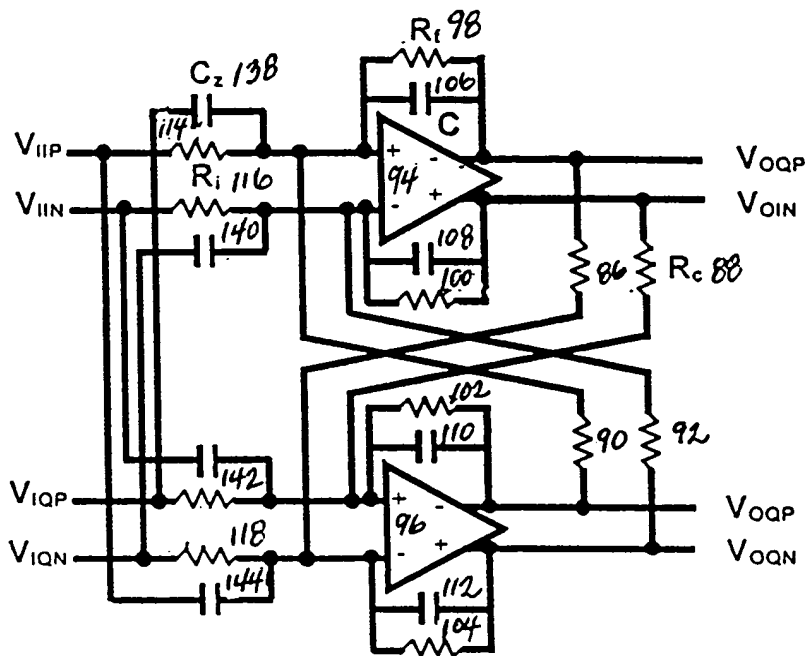


FIG. 10

Figure 1 is a plot of Attenuation (dB) versus Frequency (MHz) for a 146 MHz transponder. The y-axis represents Attenuation in dB, ranging from -60 to 10. The x-axis represents Frequency in MHz, ranging from -6 to 6. The plot shows a bandpass filter response with a peak at 146 MHz. A box labeled "Zeros at:  $2 \pm 1.3$  MHz" points to the two deep nulls in the attenuation curve.

FIG. 11

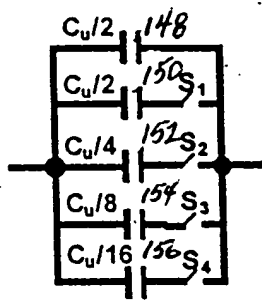


FIG. 12(a)

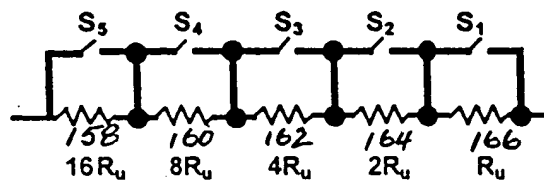


FIG. 12(b)

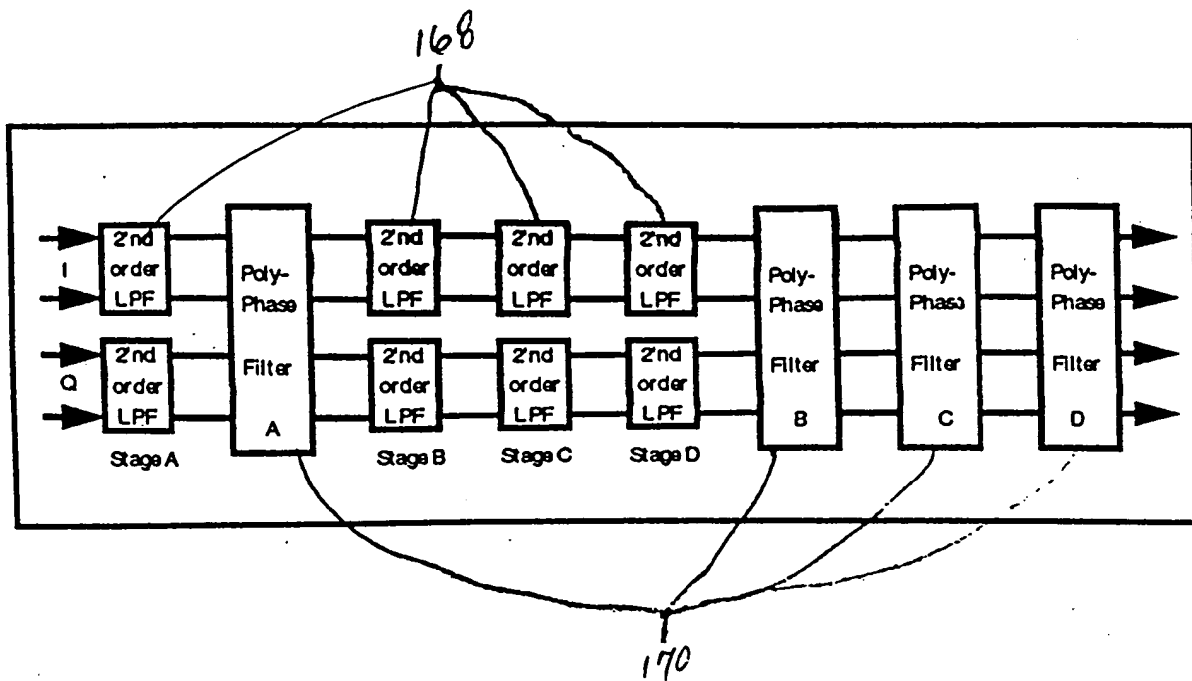


FIG. 13

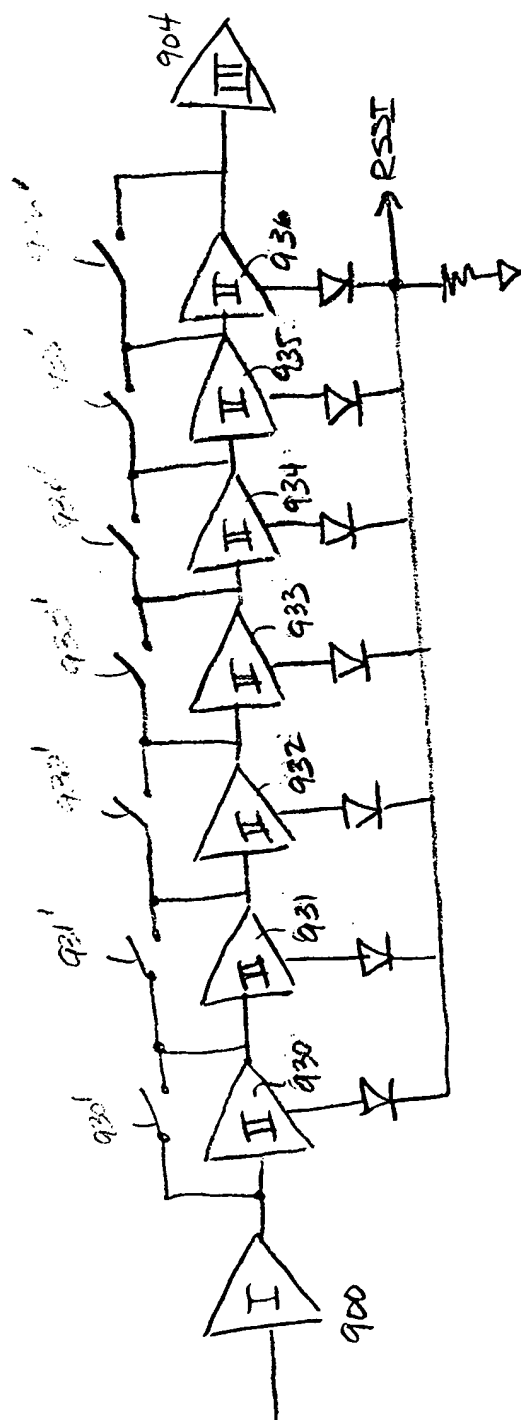


FIG. 14

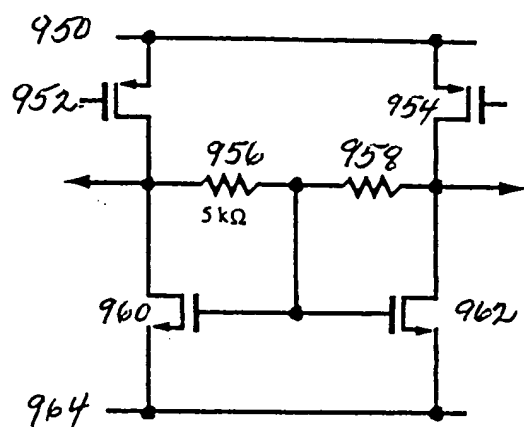
[illegible]

FIG. 15

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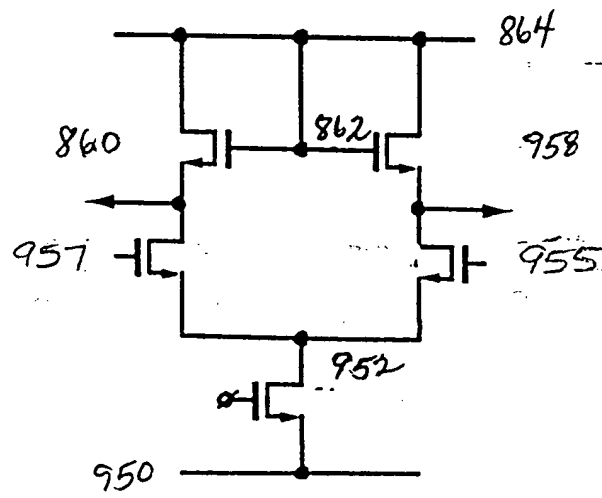


FIG. 16(a)



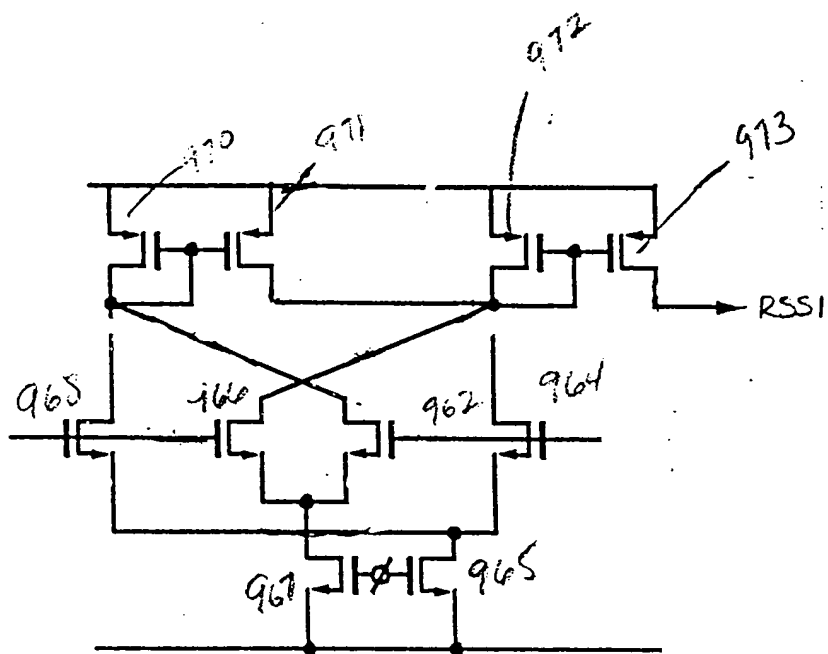
[illegible]

FIG. 16(b)

FIG. 17(a)

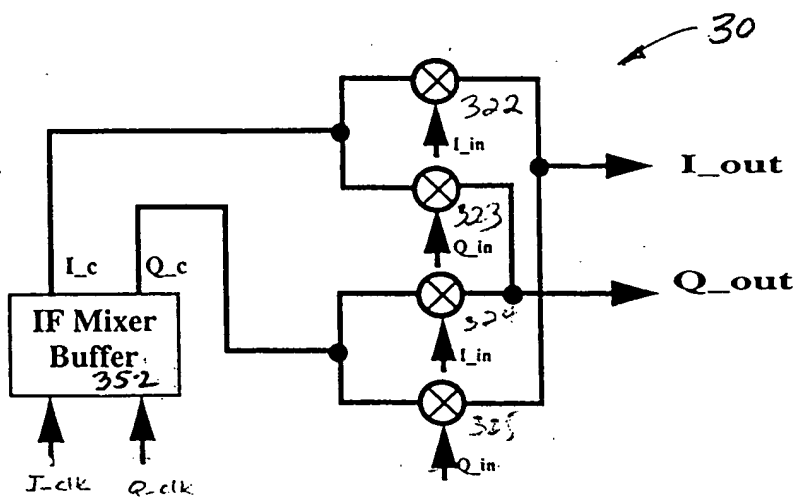


FIG. 17(b)

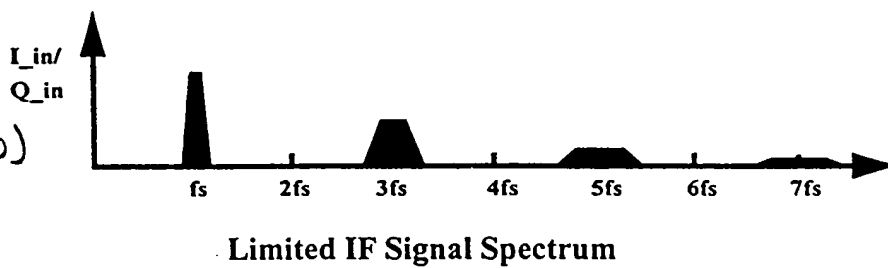


FIG. 17(c)

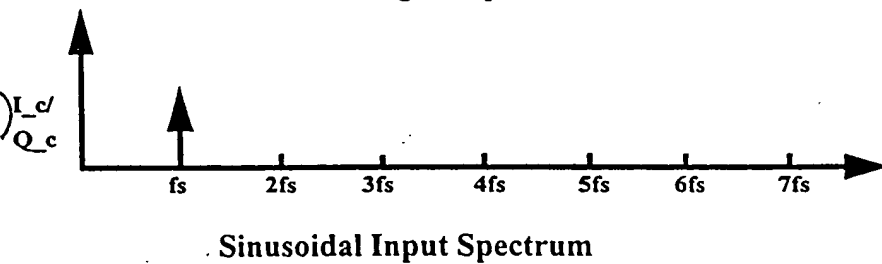


FIG. 17(d)

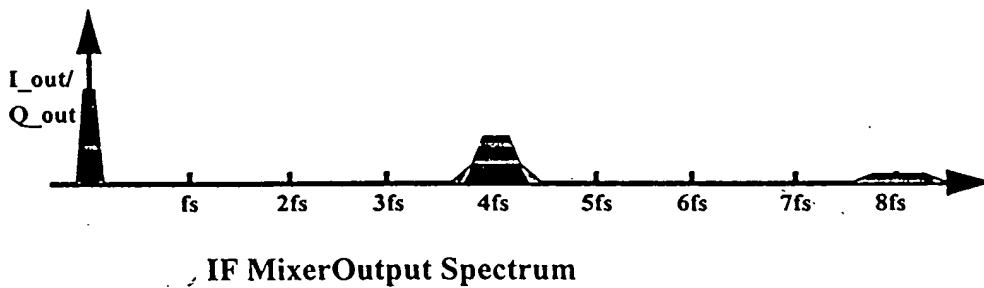


FIG. 18

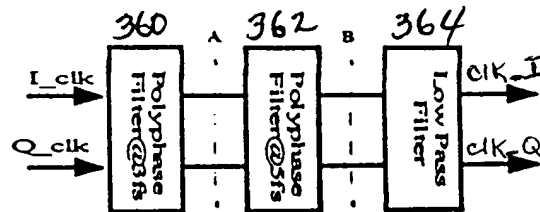


FIG. 19(a)

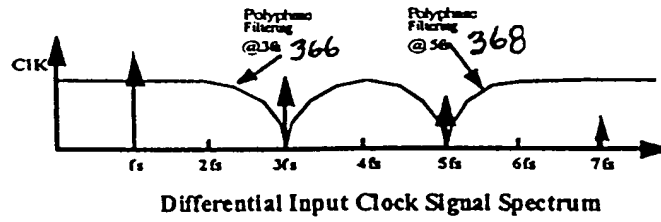


FIG. 19(b)

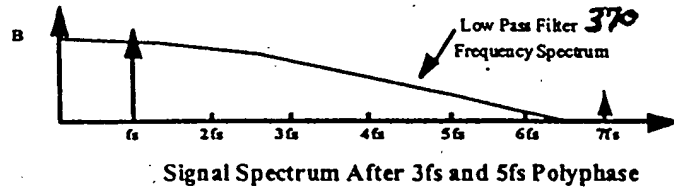
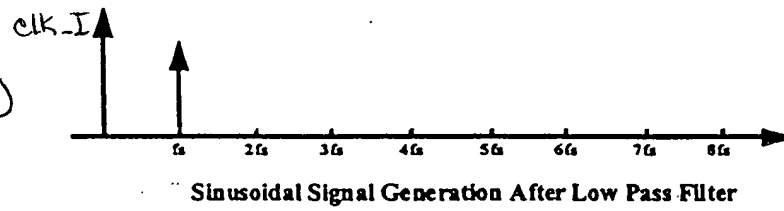
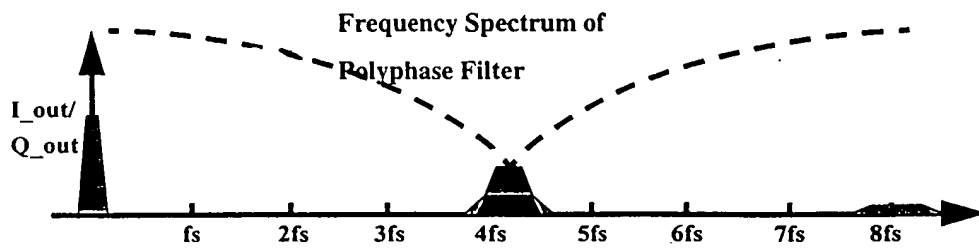


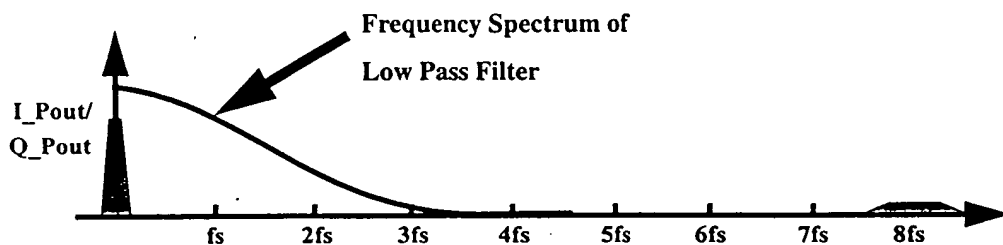
FIG. 19(c)





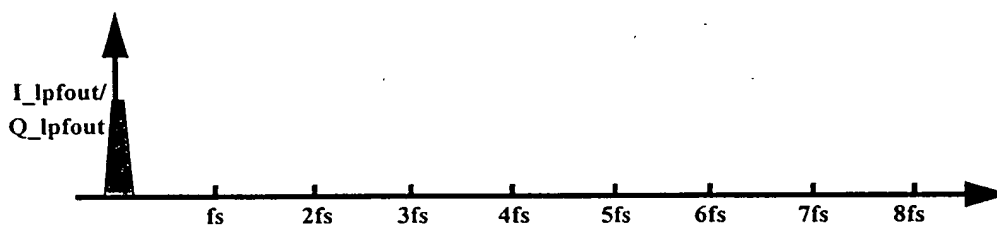
Signal Spectrum at Polyphase Input

FIG. 20(a)



Signal Spectrum at Polyphase Output

FIG. 20(b)



Signal Spectrum at Low Pass Filter Output

FIG. 20(c)

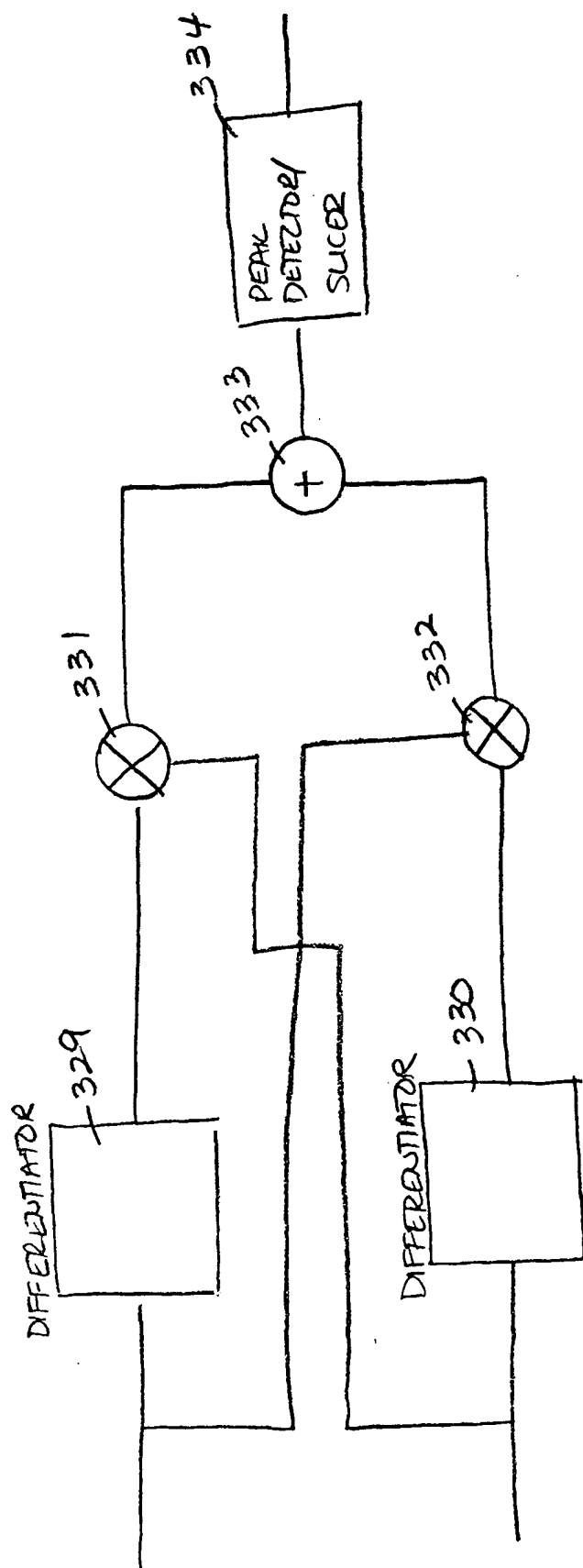


FIG. 21

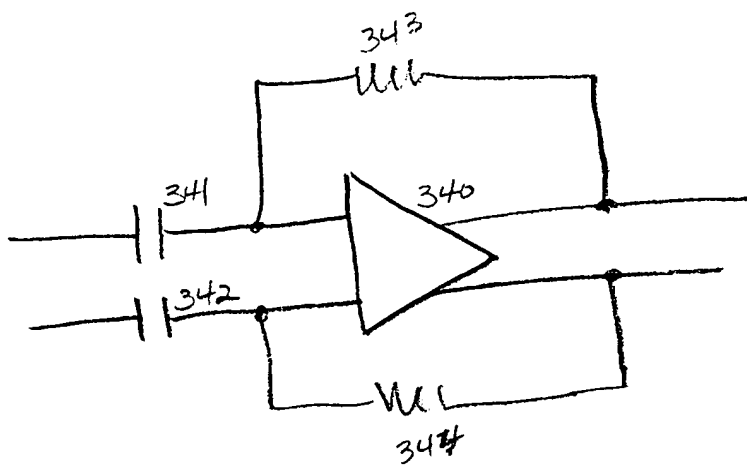


FIGURE 22

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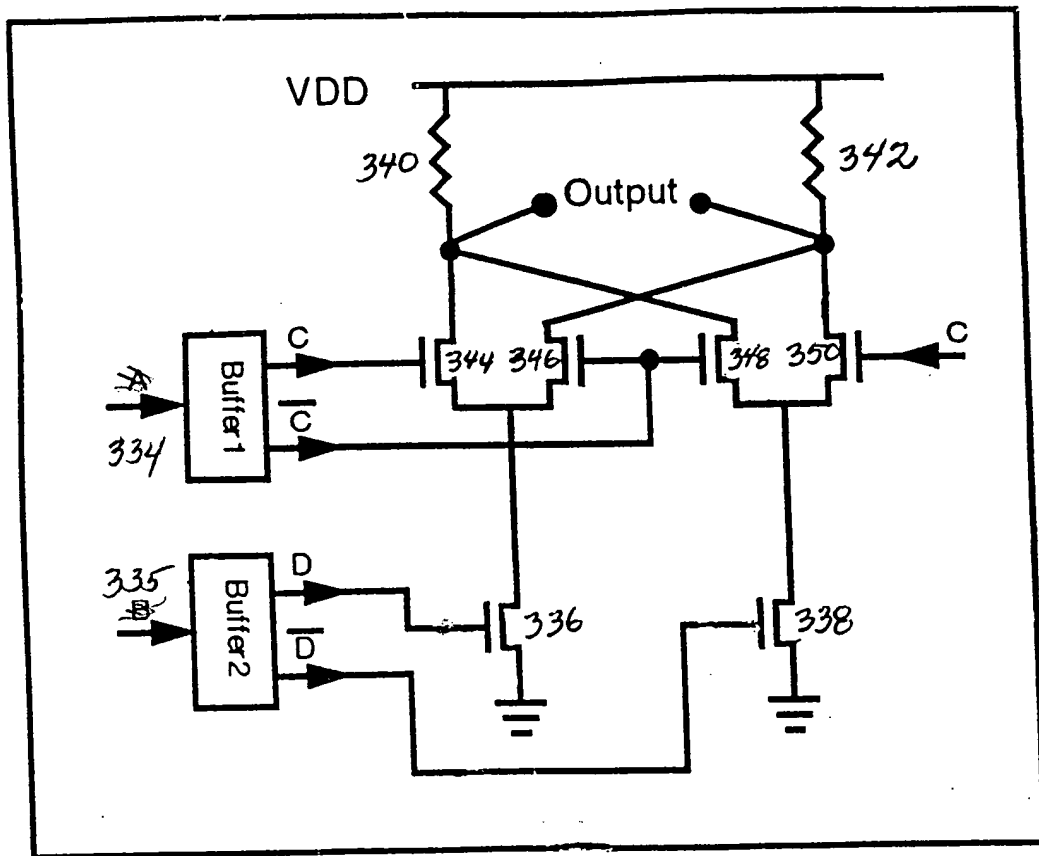


FIG. 23

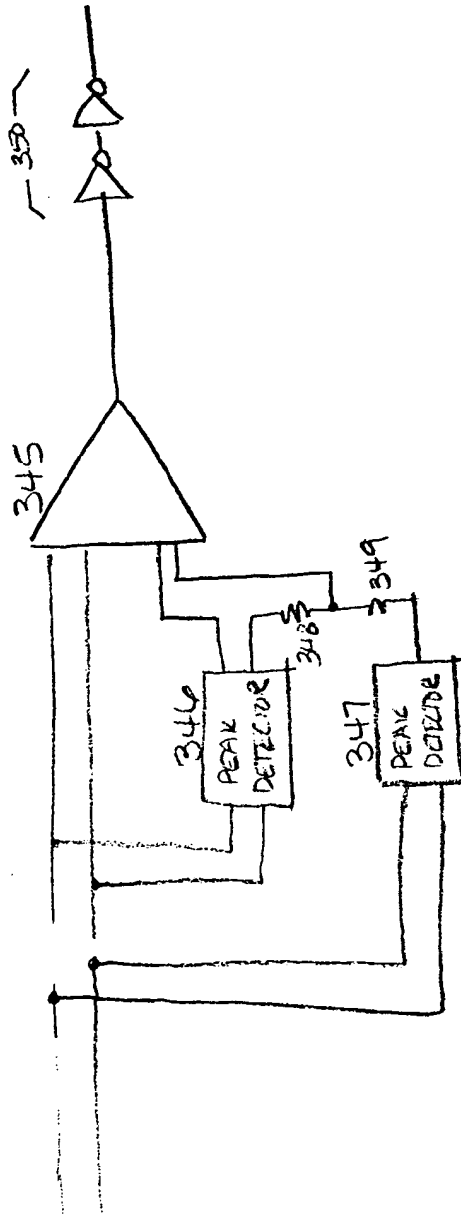


FIGURE 24



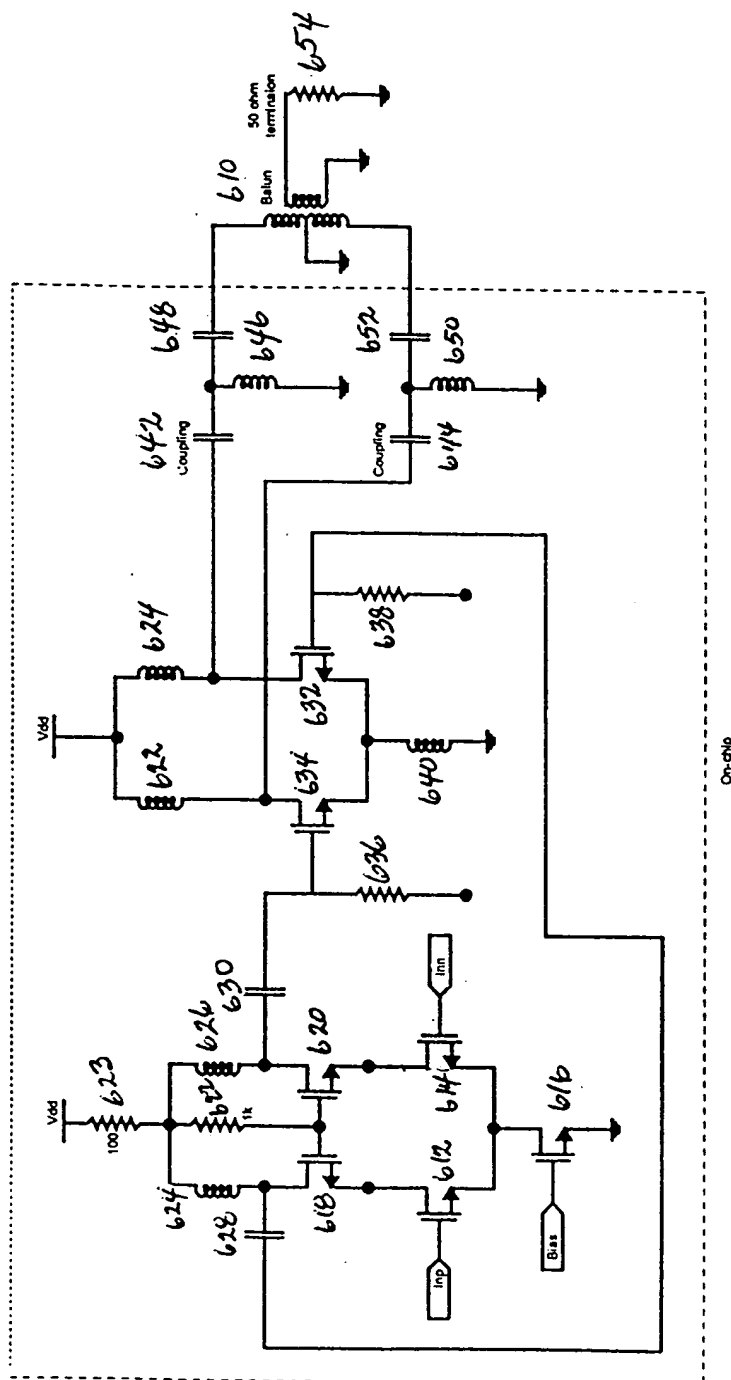


FIG. 25

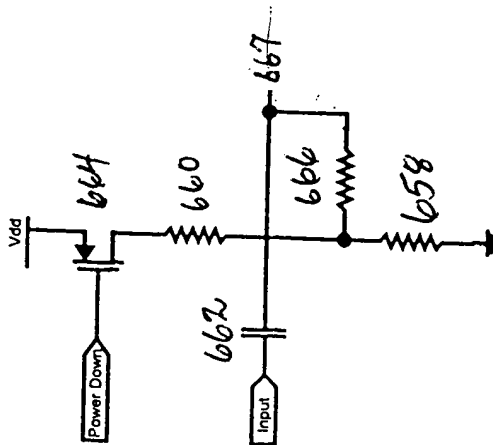


FIG. 26(a)

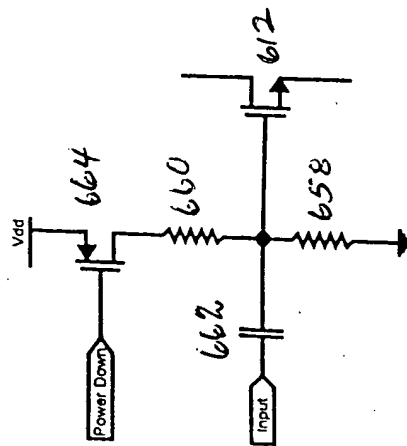


FIG. 26(b)

FIG. 27

686 688 680 678 676 674 670 682 684 686 688

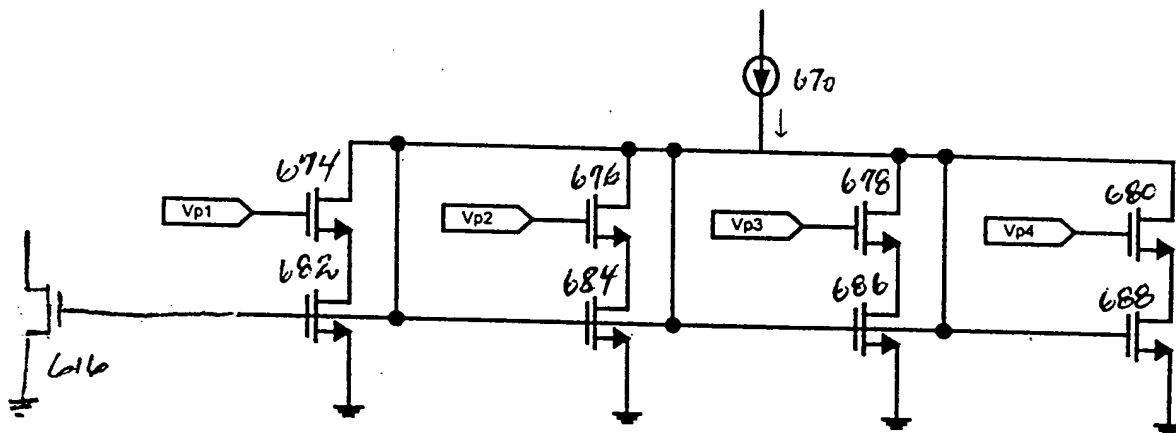


FIG. 28



000000000000

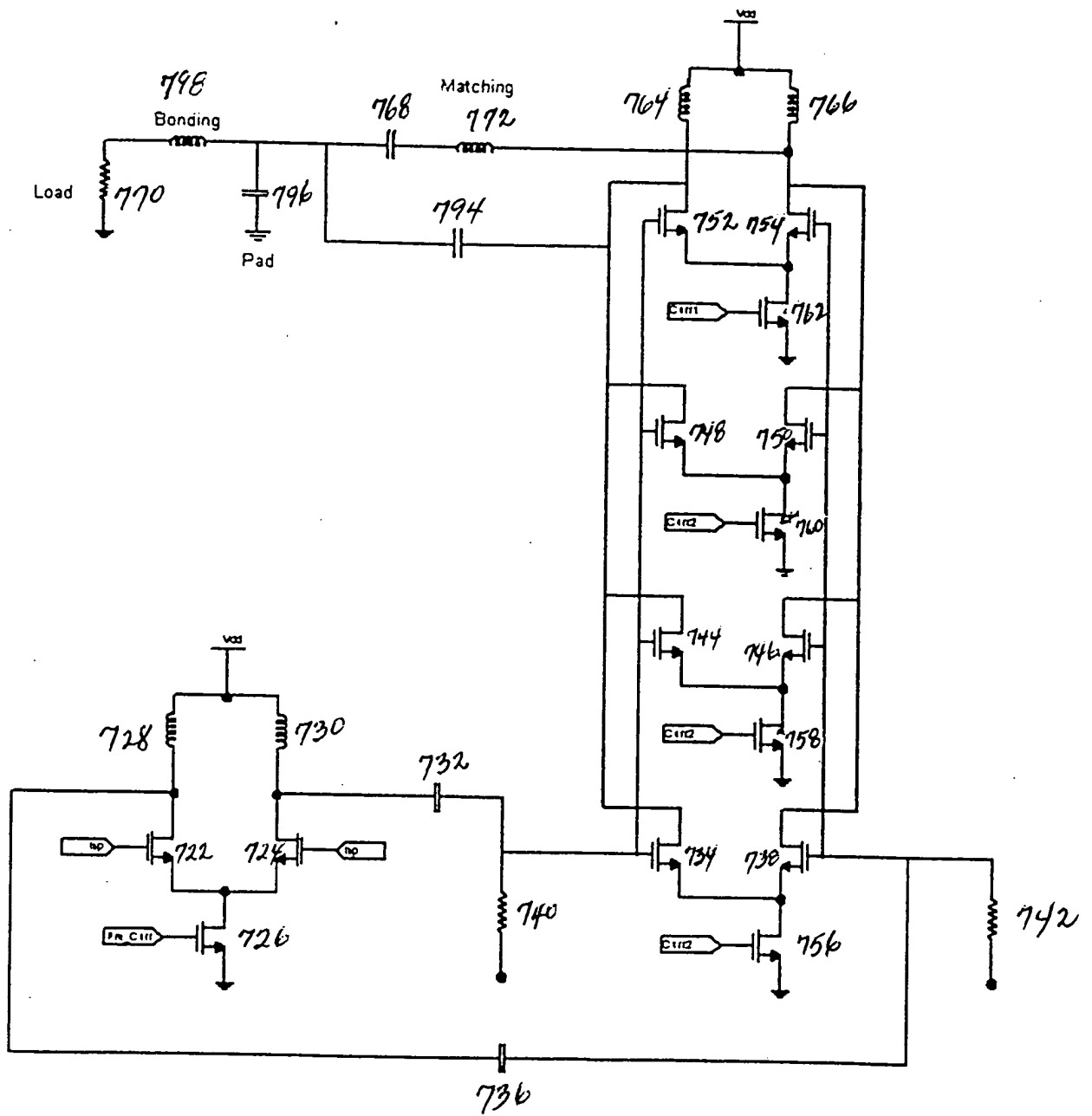


FIG. 30

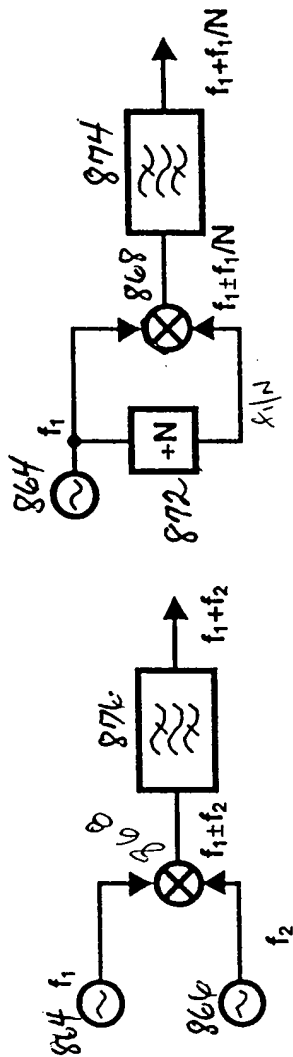


FIG. 31(a)

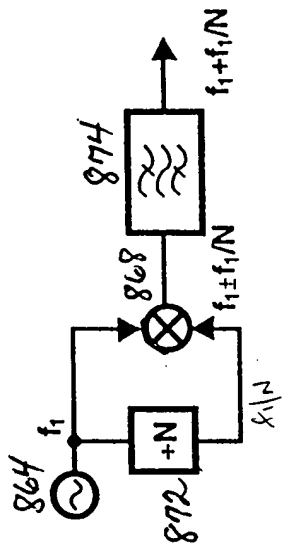


FIG. 31(b)

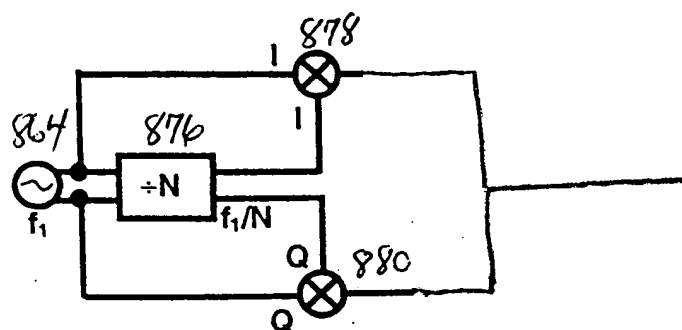


FIG. 32



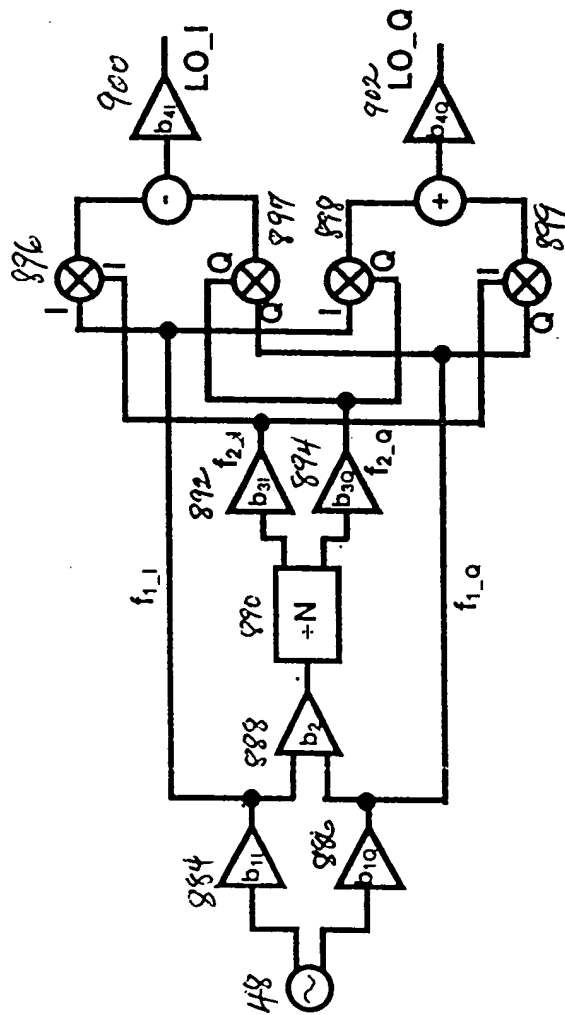


FIG. 33

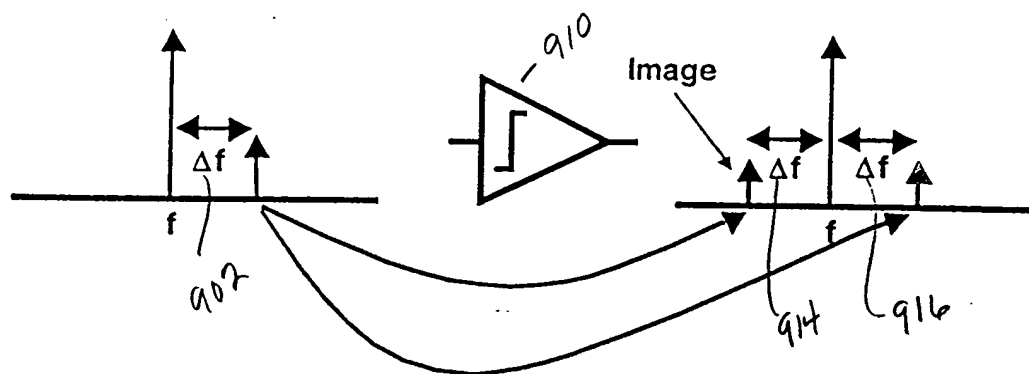


FIG. 33(a)

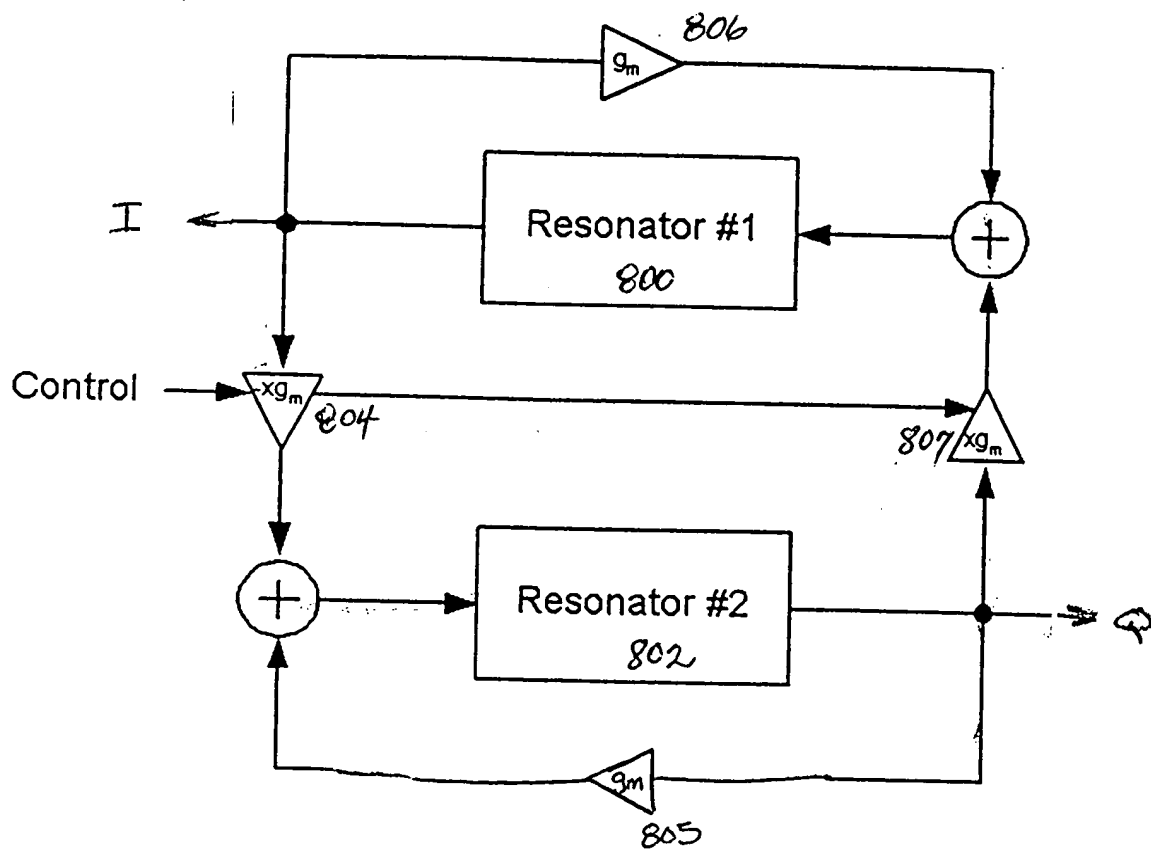


FIG. 34

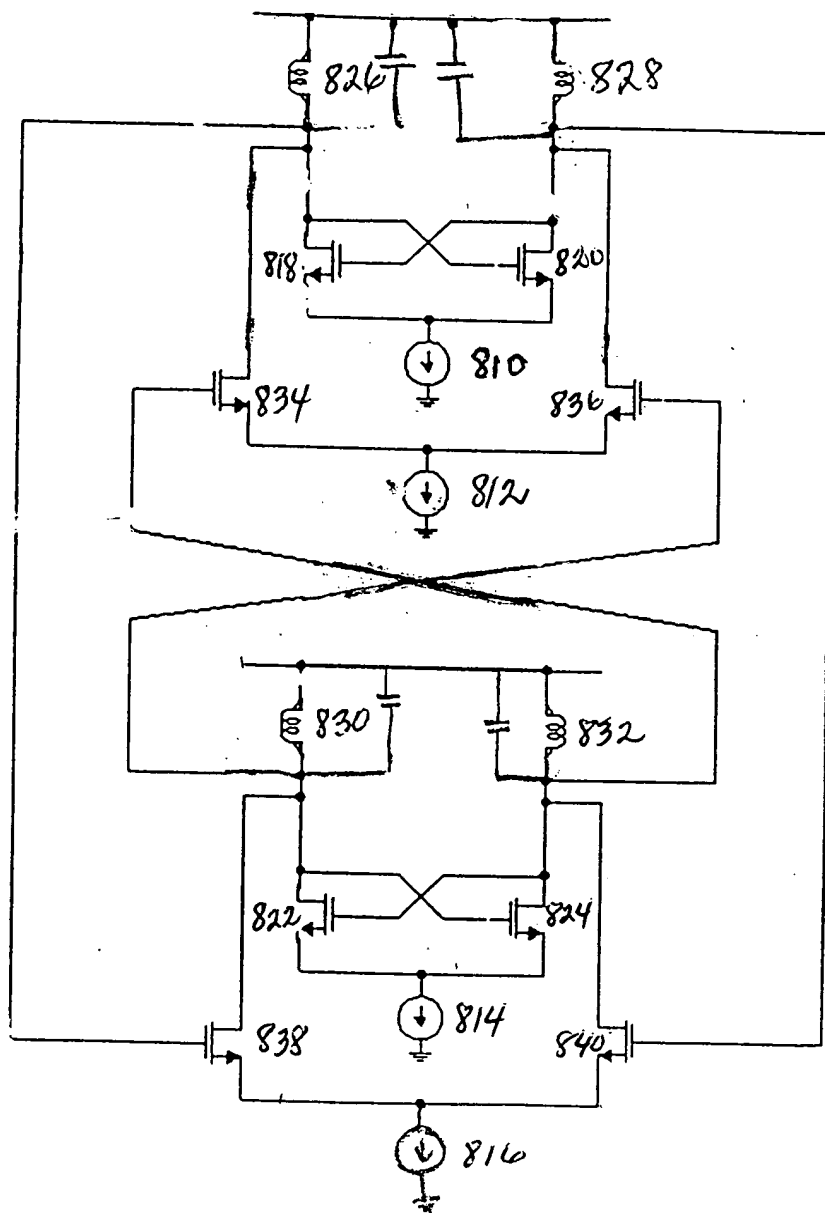


FIG. 35

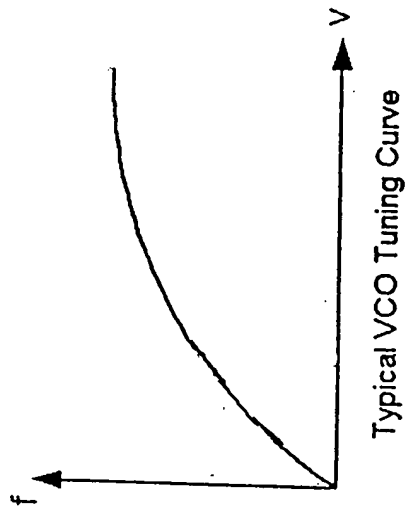


FIG. 36(a)

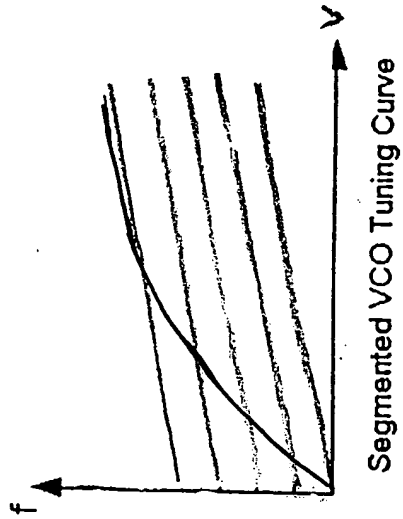


FIG. 36(b)

FIG. 37(a)

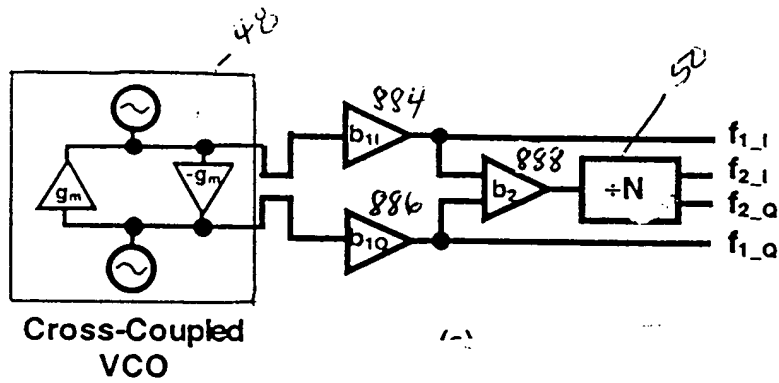
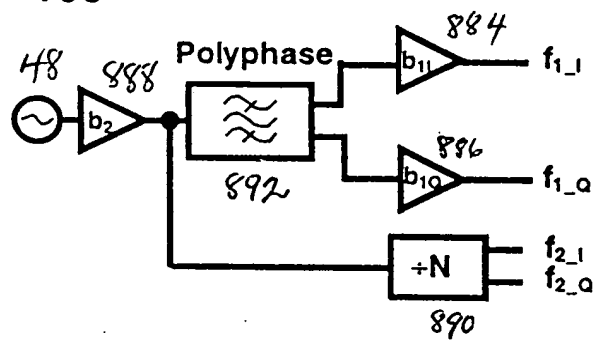


FIG. 37(b)





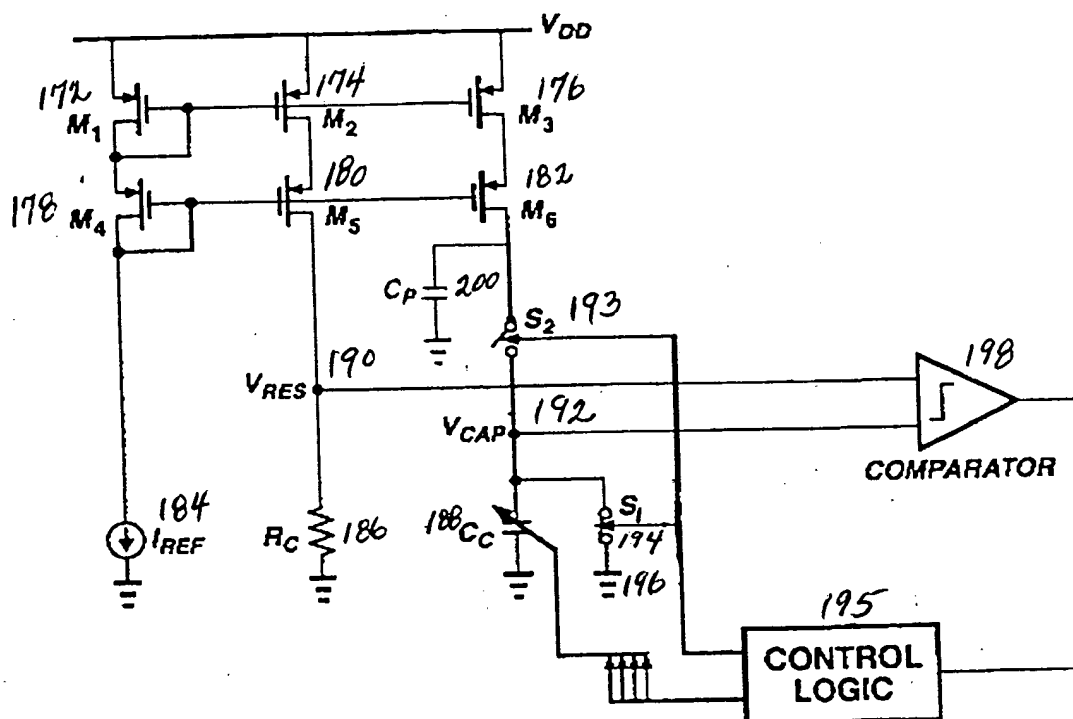
[illegible]

FIG. 39



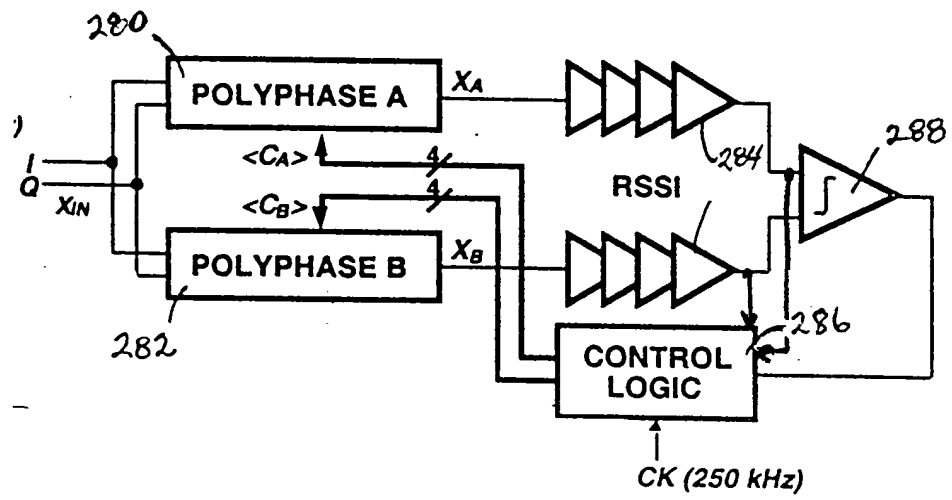


FIG. 40

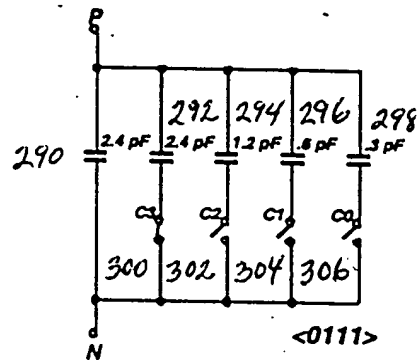


FIG. 41

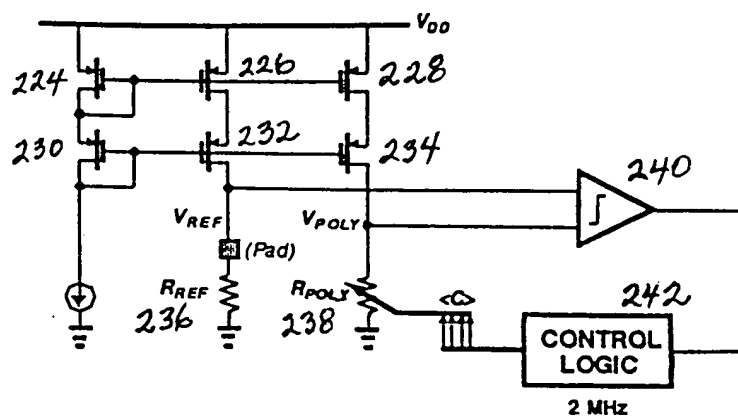


FIG. 42

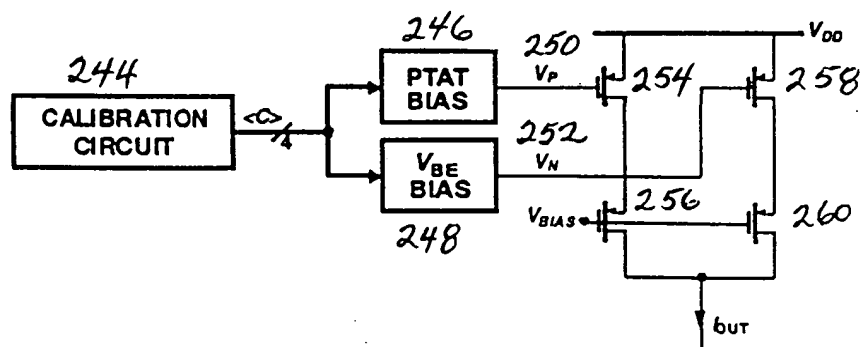
[illegible]

FIG. 43

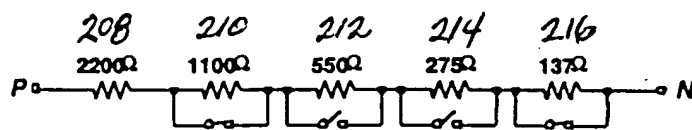


FIG. 44

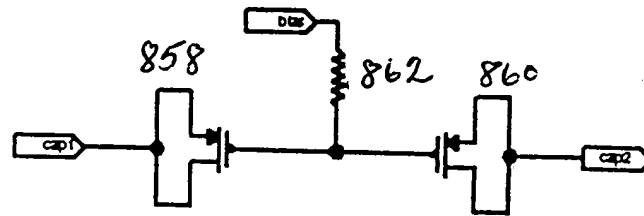


FIG. 45

60616360

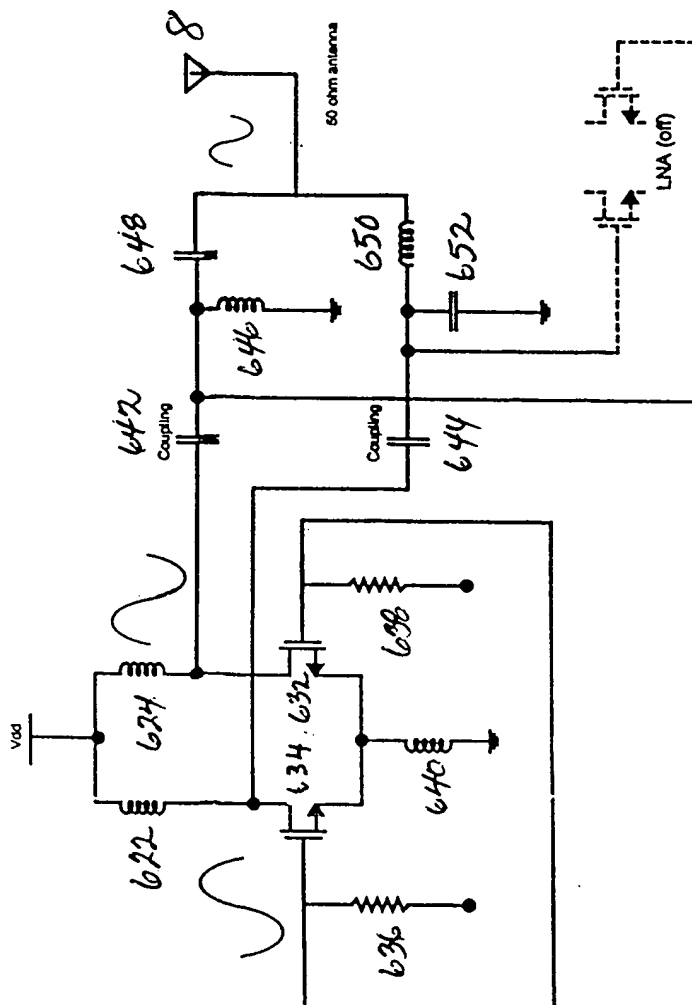


FIG. 46

646 648 650 652

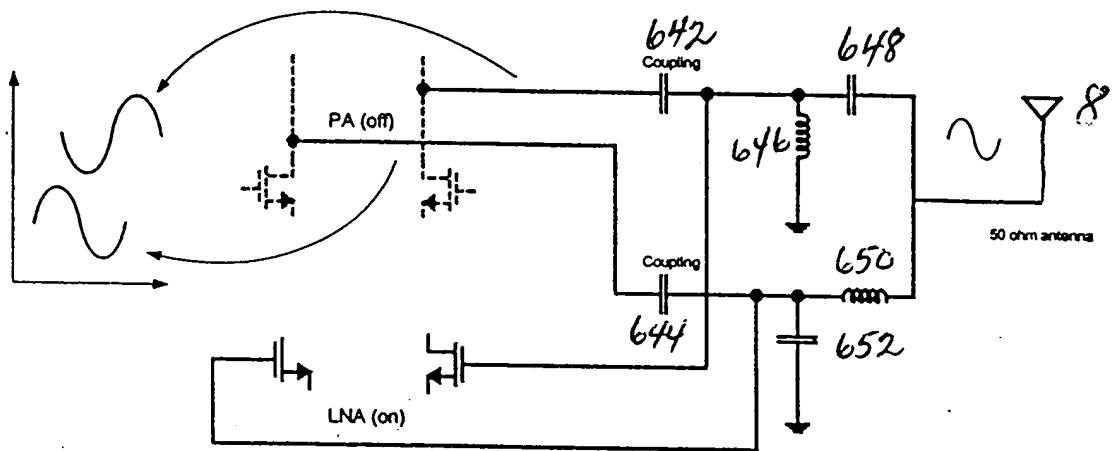


FIG. 47